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PROJECTIONS

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FIFTH EDITION

A Labor Market Information Publication

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PART 2: BILLINGS STANDARD METROPOLITAN STATISTICAL AREA

INDUSTRY/OCCUPATION PROJECTIONS: 1985

A LABOR MARKET INFORMATION PUBLICATION

STATE OF MONTANA

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U. S. DEPARTMENT OF LABOR

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FIFTH EDITION:

Part 1 State of Montana
Part 2 Billings SMSA
Part 3 Great Falls SMSA

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Employment Trends
Billings SMSA
1976-1985

I. EMPLOYMENT BY INDUSTRY

Overall employment is estimated to increase by 17,070 between 1976 and 1985. The Billings growth between 1976 and 1985 calculates to be a 37.7 percent increase which is greater than the statewide projected increase of 32.6 percent and Great Falls SMSA increase of 21.4 percent. The energy related industries growth in eastern Montana is a big attribute for Billings to grow faster than the statewide projections.

During recent years economic growth and emphasis with respect to jobs has shifted away from goods producing industries (agriculture, mining, contract construction, and manufacturing) to service producing industries (transportation, communications, public utilities, wholesale and retail trade, finance, insurance, real estate, services, and government). This is indicated by the 1976-1985 anticipated employment change with service producing industries increasing by about 15,000 and goods producing industries enlarging by about 2,000.

1. Agriculture, Forestry and Fisheries

Agriculture workers, estimated at 1,630 in 1976, are projected to drop to 1,245 in 1985. Increased mechanization, continuing trend of the vanishing farmer, and improved production practices lowers the demand for farm workers rather than a depressed industry status situation.

2. Mining

Mining is the smallest industry sector and will remain such through 1985. Increased employment will occur mostly in petroleum and natural gas and nonmetallic mining industries.

3. Construction

The trend for construction employment is projected to increase by 1,338 through the 9 year study period. The average annual employment growth of 3.9 percent between 1976 and 1985 should be considered a general trend estimate due to wide fluctuation in the construction industries activity.

4. Manufacturing

Slightly more than one-third of the goods-producing industries employment is involved in the manufacturing sector that anticipates a moderate growth of 23.1 percent over the study period. Food and kindred products industries and petroleum refining will be the larger nondurable products gainers, and durable products employment expansion leaders include fabricated metal products and saw and planing mills.

5. Transportation and Public Utilities

Transportation, communications, and public utilities industries expects employment enlargement of 1,000 from 1976 to 1985, with the transportation sector absorbing 50 percent of this expansion total.

6. Wholesale and Retail Trade

The 6,566 employment increase in the wholesale and retail industries is the largest increase of the major industry groups for

the study period. Also, the 47.3 percent increase in employment for the wholesale and retail industry represents the second largest major group increase. General merchandise and eating and drinking places will expand by 2,877 between 1976 and 1985 which amounts to about 44 percent of the total expansion.

7. Finance, Insurance and Real Estate

Leading the net percentage change for the larger industry categories is the finance, insurance, and real estate industry group. Nearly 1,100 new jobs will be created in this group during the study period. The banking industries will absorb the most new positions with a 566 projected increase.

8. Services

Second in numeric increase for the industry group are the service industries with 5608 projected new jobs. This amounts to a 39.9 percent increase from 1976 to 1985. Among the industries subgroupings that will expand the fastest are hotels and lodging places, miscellaneous business services, motion picture theaters, medical and other health services, and engineering and architect services.

9. Public Administration

The government employment expansion will be more moderate from 1976 to 1985 (37 percent increase) as compared to the 1970 to 1976 increase (44 percent) as the pressure to hold down government cost occurs. This group is forecast to increase by 838 employees during the study period. State workers will expand faster than federal and local government workers.

TABLE I

DISTRIBUTION OF GOODS-PRODUCING AND SERVICE-PRODUCING
INDUSTRIES IN 1976 AND 1985

BILLINGS SMSA

	1976 EMPLOYMENT	PERCENT	1985 EMPLOYMENT	PERCENT	1976-1985 PERCENT CHANGE
TOTAL ALL INDUSTRIES	45,234	100.0	62,304	100.0	37.7
GOODS-PRODUCING INDUSTRIES	9,041	20.0	10,988	17.6	21.5
Agricultural Production	1,546	3.4	1,169	1.9	-24.4
Mining	473	1.0	713	1.1	50.7
Contract Construction	3,790	8.5	5,128	8.2	35.3
Manufacturing	3,232	7.1	3,978	6.4	23.1
SERVICE-PRODUCING INDUSTRIES	36,193	80.0	51,316	82.4	41.8
Ag. Services, Forestry, Fisheries	84	0.2	85	0.1	1.2
Tran., Comm., & Public Utilities	3,671	8.2	4,689	7.5	27.7
Wholesale and Retail Trade	13,890	30.7	20,456	32.9	47.3
Fin., Ins., & Real Estate	2,239	4.9	3,331	5.4	48.8
Services	14,035	31.0	19,643	31.5	39.9
Government	2,274	5.0	3,112	5.0	36.9

TABLE 11

BILLINGS SMSA
TOTAL EMPLOYMENT BY INDUSTRY
INDUSTRY LISTING FROM STANDARD
INDUSTRIAL CLASSIFICATION MANUAL

	TOTAL EMPLOYMENT 1976	PROJECTED 1985	PERCENT CHANGE 1976-1985
Total all industries	45,234	62,304	37.74
Agriculture, forestry, fisheries	1,630	1,254	-23.07
Agriculture	1,610	1,228	-23.73
Agricultural production	1,546	1,169	-24.39
Services, exc horticulture	44	49	11.36
Horticultural services	20	10	-50.00
Forestry	20	26	30.00
Fisheries	0	0	0.0
Mining.....	473	713	50.74
Metal Mining	22	28	27.27
Coal Mining	13	22	69.23
Crude petroleum and nat ga	286	433	51.40
Nonmetallic mining, quarryf	152	230	51.32
Construction	3,790	5,128	35.30
General building contracto	1,053	1,391	32.10
Gen contractors, exc bld	843	1,085	28.71
Special trade contractors	1,894	2,652	40.02
Manufacturing	3,232	3,978	23.08
Durable goods	845	1,144	35.38
Ordnance	*	*	*
Lumber and wood product	82	202	146.34
Logging	*	*	*
Sawmill, planing mill, mill	82	202	146.34
Misc wood product	*	*	*
Furniture and fixtures	55	63	14.55
Stone, clay, glass product	200	241	20.50
Glass and glass product	*	*	*
Cement, concrete, plaster	162	196	20.99
Structural clay prod	35	42	20.00
Pottery and related prod	*	*	*
Misc nonmetallic, stone	*	*	*
Primary metal industries	*	*	*
Blast furnaces, steel wks	*	*	*
Other primary steel	*	*	*
Primary aluminium ind	*	*	*
Other primary nonferrous	*	*	*

*Less than ten.

	TOTAL EMPLOYMENT PROJECTED		PERCENT CHANGE
	1976	1985	1976-1985
Fabricated metal prod	280	351	25.36
Cutlery, other hardware	*	*	*
Fabricated metal prod	243	305	25.51
Screw machine prod	*	*	*
Metal stamping	*	*	*
Misc fabricated metal pr	36	45	25.00
Machinery, exc electrical	86	101	17.44
Engines and turbines	*	*	*
Farm machinery, equip	11	12	9.09
Construction machines	40	51	27.50
Metalworking machinery	*	*	*
Office, accounting mach	*	*	*
Electronic computing equ	*	*	*
Machinery, nec	34	37	8.82
Electrical machinery	*	*	*
Household appliances	*	*	*
Radio, TV, commun equip	*	*	*
Electrical machinery, nec	*	*	*
Transportation equip	16	25	56.25
Motor vehicle equip	*	*	*
Aircraft and parts	*	*	*
Ship, boat bldg, repair	*	*	*
Railroad equip	*	*	*
Mobile dwelling	*	*	*
Cycles, misc transp equip	10	19	90.00
Prof, scientif instruments	12	10	-16.67
Scientific instruments	*	*	*
Optical, health serv supp	*	*	*
Photo equip and supplies	*	*	*
Watches and clock device	*	*	*
Misc manufacturing	106	143	34.91
Nondurable goods	2,387	2,834	18.73
Food and kindred prod	972	1,287	32.41
Meat products	329	437	32.83
Dairy products	63	83	31.75
Canning and preserving	*	*	*
Grain-mill products	13	17	30.77
Bakery products	142	187	31.69
Confectionary products	*	*	*
Beverage industries	97	128	31.96
Misc food preparation	324	431	33.02
Tobacco manufacturing	*	*	*
Textile mill products	*	*	*
Knitting mills	*	*	*
Dyeing, finishing textile	*	*	*
Floor coverings	*	*	*
Yarn, fabric mills	*	*	*
Misc text mill products	*	*	*
Apparel, textile products	27	28	3.70
Apparel and accessories	*	*	*
Misc fabricated products	26	27	3.85
Paper and allied products	*	*	*
Pulp, paper, paperbd mills	*	*	*
Paperbd containers, boxes	*	*	*
Misc paper and pulp prod	*	*	*
Printing and publishing	559	503	-10.02
Newspaper publ, printing	227	206	- 9.25
Print, publish exc news	332	297	-10.54
Chemical and allied prod	26	27	3.85
Industrial chemicals	21	22	4.76
Plastics, synthetics	*	*	*
Synthetic fibers	*	*	*
Drugs and medicines	*	*	*
Soaps and cosmetics	*	*	*
Paints, varnishes	*	*	*

*Less than ten.

	TOTAL EMPLOYMENT PROJECTED		PERCENT CHANGE
	1976	1985	1976-1985
Agric chemicals	*	*	*
Misc chemicals	*	*	*
Petroleum and coal prod	778	960	23.39
Petroleum refining	778	960	23.39
Misc petrol, coal prod	*	*	*
Rubber, misc plastic prod	14	18	28.57
Rubber products	8	11	37.50
Misc plastic prod	*	*	*
Leather products	11	11	0.0
Leather tanning, finishing	11	11	0.0
Footwear, exc rubber	*	*	*
All other leather prod	*	*	*
Transportation, other pub uti	3,671	4,689	27.73
Transportation, total	2,574	3,078	19.58
Railroads, railway express	893	1,036	16.01
Local, interurban transit	232	349	50.43
Street railways, bus line	164	249	51.83
Taxicab service	68	100	47.06
Trucking and warehousing	1,218	1,465	20.28
Trucking services	1,007	1,203	19.46
Warehousing and storage	211	262	24.17
Water transportation	*	*	*
Air transportation	95	86	- 9.47
Pipelines	79	68	-13.92
Transportation services	57	74	29.82
Communication, util, sanita	1,097	1,611	46.86
Communications	591	890	50.59
Telephone (wire & radio)	408	615	50.74
Telegraph, misc commun se	13	19	46.15
Radio broadcasting, TV	170	256	50.59
Utilities, sanitary serv	506	721	42.49
Electric light and power	36	55	52.78
Electric-gas utilities	118	184	55.93
Gas, steam supply systems	12	18	50.00
Water supply	149	191	28.19
Sanitary services	174	250	43.68
Other utilities, nec	17	23	35.29
Wholesale and retail trade	13,890	20,456	47.27
Wholesale trade	3,692	5,052	36.84
Wholesale, exc misc whols	2,945	4,121	39.93
Motore vehicles and equi	528	733	38.83
Drugs, chemicals, allied p	156	208	33.33
Dry goods and apparel	30	29	- 3.33
Food and related product	623	899	44.30
Farm prod raw material	100	160	60.00
Electical goods	205	260	26.83
Hardware, plumbing	215	270	25.58
Machinery equip, supplies	1,088	1,562	43.57
Misc wholesale trade	747	931	24.63
Metals and minerals, nec	35	45	28.57
Petroleum products	283	349	23.32
Scrap and waste material	67	77	14.93
Alcholic beverages	51	65	27.45
Paper and its products	32	41	28.13
Lumber, constr, materials	145	187	28.97
Wholesale, nec	134	167	24.63
Retail trade	10,198	15,404	51.05
Building materials	872	1,172	34.40

*Less than ten.

	TOTAL EMPLOYMENT 1976	PROJECTED 1985	PERCENT CHANGE 1976-1985
Lumber, bldg material	491	662	34.83
Hardware and farm equip	381	510	33.86
General merchandise, total	1,830	3,060	67.21
Department, mail order	1,360	2,334	71.62
Limited price stores	83	141	69.88
Vending machine operator	22	35	59.09
Direct selling	242	347	43.39
Misc merchandise stores	123	203	65.04
Food and dairy stores	910	1,487	63.41
Grocery stores	814	1,346	65.36
Dairy prod stores	16	26	62.50
Retail bakeries	25	29	16.00
Food stores, nec	55	86	56.36
Auto dealers, gas stations	1,483	1,987	33.99
Motor vehicles dealers	618	849	37.38
Tire, battery accessory	62	83	33.87
Gas service stations	618	799	29.29
Misc vehicle dealers	185	256	38.38
Apparel and accessories	465	651	40.00
Apparel accessories stor	400	560	40.00
Shoe stores	65	91	40.00
Furniture and appliances	455	717	57.58
Home furnishing stores	260	422	62.31
Appliance, TV, radio store	195	295	51.28
Eating and drinking place	2,888	4,535	57.03
Misc retail trade stores	1,295	1,795	38.61
Drug stores	339	495	46.02
Liquor stores	72	105	45.83
Farm, garden supply store	27	37	37.04
Jewelry stores	97	123	26.80
Fuel and ice dealers	31	47	51.61
Retail florists	96	138	43.75
Misc retail trade stores	633	850	34.28
Finance, insurance, real estate	2,239	3,331	48.77
Finance, total	984	1,826	85.57
Banking	664	1,230	85.24
Credit agencies	218	411	88.53
Stock brokers, investment	102	185	81.37
Insurance	495	653	31.92
Real estate, re law insur	760	852	12.11
Services, total	14,035	19,643	39.96
Hotels and lodging places	1,245	1,946	56.31
Hotels and motels	1,011	1,696	67.75
Lodging places, exc hotel	234	250	6.84
Other personal services	729	738	1.23
Laundry, cleaning	248	256	3.23
Beauty shops	241	249	3.32
Barber shops	84	75	-10.71
Shoe repair shops	24	23	- 4.17
Dressmaking shops	26	27	3.85
Other personal services	106	108	1.89
Misc business services	927	1,578	70.23
Advertising	24	43	79.17
Business mgmnt services	213	344	61.50
Commercial R & D	22	40	81.82
Computer programming	10	19	90.00
Detective and protective	95	169	77.89
Employment, temp help	22	40	81.82
Services buildings	240	412	71.67
Other misc services	301	511	69.77

	TOTAL EMPLOYMENT PROJECTED		PERCENT CHANGE
	1976	1985	1976-1985
Auto repair services	478	653	36.61
Auto repair	359	480	33.70
Auto services, exc repair	119	173	45.38
Other repair services	403	511	26.80
Electrical repair shop	196	283	44.39
Other repair services	207	228	10.14
Motion pictures, theaters	174	317	82.18
Misc entertainment	348	471	35.34
Bowling alleys, billiards	103	136	32.04
Misc entertainment	245	335	36.73
Medical, other health	2,813	4,420	57.13
Offices of physicians	543	838	54.33
Offices of dentists	231	341	47.62
Offices of chiropractors	37	46	24.32
Hospitals	1,441	2,327	61.49
Convalescent institution	322	512	59.01
Health practitioners, nec	62	84	35.48
Health services, nec	177	272	53.67
Legal services	337	447	32.64
Educational services	4,291	5,472	27.52
Elementary, secondary	2,989	3,867	29.37
Colleges and universitie	946	1,200	26.85
Libraries	51	70	37.25
Educational services, ne	305	335	9.84
Museums, art galleries, zoo	37	50	35.14
Nonprofit organizations	782	1,001	28.01
Religious organizations	33	39	18.18
Welfare services	137	202	47.45
Residential welfare	137	174	27.01
Nonprofit membership	475	586	23.37
Private households	342	282	-17.54
Other prof, related service	1,129	1,757	55.62
Eng and arch services	407	762	87.22
Accounting, auditing	318	483	51.89
Misc prof services	404	512	26.73
Public Administration:	2,274	3,112	36.85
Federal public admin	1,184	1,540	30.07
Postal services	381	514	34.91
Other public admin	803	1,026	27.77
State public admin	137	218	59.12
Local public admin	953	1,354	42.08

II. OCCUPATION EMPLOYMENT

Total annual average job openings in the Billings SMSA are estimated at 3,702 over the 9 year study period. Openings due to growth consist of 51 percent or 1,895 of the total and 1,806 annual openings will be created by separations. Thus, for every 100 new jobs created by industry growth there will be about 98 openings due to separations.

In grouping occupations into type of worker, the white collar worker (professional, technical, managers, sales workers, and clerical workers) trend dominates the numeric increase in employment which includes 60 percent of the 17,065 total occupational growth. Blue collar workers (craft and kindred, operatives, and nonfarm laborers) expect to grow by 33 percent through the 9 year study period. Service workers employment is expected to increase by 3,028 from 1976 to 1985 for a 10,072 total in 1985. The 42.9 percent increase in service workers is one of the larger group increases during the study period. Clerical workers expansion will be the largest percent increase for the occupational group, and the big increase in paper work required by the various industries is a major factor. Farmers and farm workers are the only major occupational group to record a decline from 1976 to 1985. Farm managers are the only type of farm worker that will have an increase in employment.

TABLE III

DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL GROUP
1976 AND PROJECTED 1985

BILLINGS SMSA

MAJOR OCCUPATIONAL GROUP	<u>1976</u>		<u>PROJECTED 1985</u>		NET CHANGE 1976-1985
	EMPLOYMENT	PERCENT DISTRIB- UTION	EMPLOYMENT	PERCENT DISTRIB- UTION	
TOTAL ALL OCCUPATIONS	45,238	100.0	62,303	100.0	37.7
Professional, Technical, and Kindred	6,564	14.5	8,725	14.0	32.9
Managers, Officials, and Proprietors	7,075	15.6	9,806	15.8	38.6
Sales Workers	3,526	7.8	5,007	8.0	42.0
Clerical Workers	7,539	16.7	11,420	18.3	51.5
Craft and Kindred Workers	5,510	12.2	7,629	12.2	38.5
Operatives	4,507	10.0	5,820	9.3	29.1
Service Workers	7,044	15.6	10,072	16.2	42.9
Laborers, Except Farm	2,360	5.2	3,043	4.9	28.9
Farmers and Farm Workers	1,113	2.4	781	1.3	-29.8

TABLE IV

ANNUAL AVERAGE JOB OPENINGS
1976-1985

BILLINGS SMSA

MAJOR OCCUPATIONAL GROUP			
	TOTAL	OPENINGS DUE TO GROWTH	OPENINGS DUE TO SEPARATIONS
Total All Occupations	3702	1895	1806
White-Collar Workers	2160	1139	1021
Prof., Technical, and Kindred	468	240	228
Managers, Officials, and Propr.	620	303	317
Sales Workers	317	165	152
Clerical Workers	755	431	324
Blue-Collar Workers	834	457	376
Craft and Kindred Workers	411	235	175
Operatives	272	146	126
Nonfarm Laborers	151	76	75
Service Workers	698	336	362
Farmers and Farm Workers	10	-37	47

TABLE V
BILLINGS SMSA
ANNUAL AVERAGE JOB OPENINGS
BY OCCUPATIONAL GROUPS AND
SELECTED OCCUPATIONS
1976-1985

	<u>TOTAL JOB OPENINGS</u>	<u>OPENINGS DUE TO GROWTH</u>	<u>OPENINGS DUE TO SEPARATION</u>
TOTAL ALL OCCUPATIONS	3,702	1,896	1,806
Professional, technical, and kindred	468	240	228
Engineers, technical	28	21	7
Engineers, chemical.	9	6	3
Life and physical scientists	15	10	5
Geologists	11	8	3
Engineers, science technicians	37	28	8
Drafters	12	9	3
Engineering, science tech nec.	13	9	4
Medical workers, exc tech.	83	48	35
Physicians, MD osteopaths.	10	8	2
Registered nurses.	46	23	23
Health technol and tech.	17	12	5
Technicians, exc health.	8	5	3
Social scientists.	9	7	2
Teachers	103	15	89
Elementary school teachers	50	13	37
Secondary school teachers.	11	-7	18
Teachers nec, exc coll, univer	25	7	18
Writers, artists, entertainers	40	25	15
Musicians and composers.	19	13	6
Other professional, technical.	124	66	58
Accountants.	40	20	20
Lawyers.	14	7	7
Librarians	16	4	12
Recreation workers	12	7	5
Social workers	10	5	5
Vocational, ed counselors.	11	8	3
Managers, officials, proprietors	620	303	317
Buyers, sales, loan managers	132	93	39
Bank, financial managers	51	38	13
Buyers, wholesale, retail.	10	6	4
Purchasing agents, buyers, nec	9	4	5
Sales manager, retail trade.	41	30	11
Sales manager, exc ret trade	12	9	3
Administrators, pub inspectors	49	20	28
Inspectors, exc construct pub.	9	4	5
Officials, admins, pub	12	4	8
School admin, elem, secondary.	11	6	5
Other managers, officials, props	440	191	249
Office managers, nec	22	12	11
Restaurant, cafe, bar mgrs	27	10	17
Other mgrs, administrators	370	164	207

	<u>TOTAL JOB OPENINGS</u>	<u>OPENINGS DUE TO GROWTH</u>	<u>OPENINGS DUE TO SEPARATION</u>
Sales workers	317	165	152
Hucksters and peddlers	13	6	7
Insurance agents, brokers, etc	15	7	8
Real estate agents, brokers	19	3	16
Stock and bond sales agents	10	5	5
Sales workers, nec	246	136	109
Clerical workers	755	431	324
Stenographers, typists, secre	212	119	93
Secretaries, other	169	98	71
Typists	30	17	13
Office machine operators	14	8	6
Other clerical workers	529	305	224
Bank tellers	20	14	6
Bookkeepers	69	30	39
Cashiers	57	34	22
Clerical supervisors, nec	11	8	4
Counter clerks, exc food	41	19	22
Estimators, investigators, nec	21	12	9
Library attendants, assistant	10	5	5
Postal clerks	9	4	5
Receptionists	37	20	17
Shipping, receiving clerks	14	8	6
Stock clerks, store keepers	14	9	5
Teachers aides, exc monitors	22	15	7
Misc clerical workers, nec	134	94	40
Crafts and kindred workers	411	235	175
Construction crafts workers	142	84	59
Carpenters	54	27	27
Electricians	22	15	7
Excavating, grading, mach opr.	15	10	5
Plumbers and pipefitters	22	13	9
Blue collar worker supvr, nec	50	29	21
Mechanics, repairers, installers	122	74	48
Auto mechanics	38	23	15
Heavy equip mech, incl deisel	15	9	6
Household appliance mechanics	13	8	6
Radio, television repairers	14	11	3
Transportation, pub util craft	21	15	6
Telephone installers, repairers	9	7	2
Other crafts, kindred workers	68	33	35
Opticians, lens grindr, polishr	14	10	4
Operatives	272	146	126
Operatives, exc transport	161	83	77
Semiskilled metalworking	25	16	8
Welders and flame cutters	25	16	8
Semiskilled packing, inspecting	17	10	7
Other operatives, exc transport	119	57	62
Dressmakers, exc factory	14	4	10

	<u>TOTAL JOB OPENINGS</u>	<u>OPENINGS DUE TO GROWTH</u>	<u>OPENINGS DUE TO SEPARATION</u>
Garage wrkrs, gas station atten.	13	5	8
Misc mach operatives	17	10	7
Operatives, nec.	23	12	11
Transport equipment operatives	112	63	49
Bus drivers.	10	4	7
Delivery and route workers	36	26	10
Truck drivers.	39	21	18
Service workers.	698	336	362
Cleaning service workers	202	95	107
Lodging quartrs cleanrs exc pr	42	24	18
Bldg interior cleaners, nec.	70	35	35
Janitors and sextons	90	37	53
Food service workers	262	140	122
Bartenders	28	15	13
Cooks, exc private	81	43	37
Food counter, fountain workers	26	14	12
Waiters.	87	50	37
Food workers, nec, exc private	22	7	15
Health service workers	102	62	40
Nurses aides, orderlies.	55	32	23
Practical nurses	32	20	12
Personal service workers	91	32	59
Child care workers, exc private.	49	23	26
Hairdressers, cosmetologists	18	5	13
Protective and service workers	38	17	21
Guards	11	3	8
Police and detectives.	15	10	5
Sheriffs and bailiffs.	10	4	6
Laborers, except farm.	151	76	75
Carpenters, helpers.	16	8	8
Freight, material handlers	12	8	4
Gardenrs, groundkeepr, exc farm.	27	4	22
Stock handlers	32	24	8
Vehicle washers, equip cleaners.	13	7	6
Other laborers	25	9	16
Farmers and farm workers	10	-37	47
Farmers and farm managers.	14	-20	34

TABLE VI

Billings SMSA
TOTAL EMPLOYMENT
BY OCCUPATIONAL GROUP AND
SELECTED OCCUPATIONS
1976-1985

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	PERCENT CHANGE 1976-1985
Professional, technical, and kindred	6,564	8,725	32.9
Engineers, technical	378	564	49.2
Engineers, aero-astronautic			
Engineers, chemical	33	56	69.7
Engineers, Civil	109	164	50.5
Engineers, electrical	55	92	67.3
Engineers, industrial	18	27	50.0
Engineers, mechanical	51	62	21.6
Engineers, metallurgical			
Engineers, mining			
Engineers, petroleum	31	45	45.2
Engineers, sales	14	20	42.3
Engineers, other	67	98	46.3
Life and physical scientists	227	319	40.5
Agricultural scientists	9	10	11.1
Atmospheric, space scientists	13	16	23.1
Biological scientists	23	30	30.4
Chemists	13	17	30.8
Geologists	163	234	43.6
Marine scientists	6	12	100.0
Physicists and astronomers			
Life, physical scientists nec			
Mathematical specialists			
Actuaries			
Mathematicians			
Statisticians			
Engineers, science technicians	380	635	67.1
Agri biolog tech exc health			
Chemical technicians	57	80	40.4
Drafters	121	205	69.4
Electrical, electronic tech	34	56	64.7
Industrial engineering tech			
Mathematical techn			
Mechanical engineering tech			
Surveyors	56	100	78.6
Engineering, science tech nec	112	194	73.2
Medical workers, exc tech	871	1,304	49.7
Chiropractors	33	40	21.2
Dentists	56	90	60.7
Dietitians	31	40	29.0
Optometrists	7	10	42.9
Pharmacists	60	87	45.0
Physicians, MD osteopaths	116	190	63.8
Podiatrists			
Registered nurses	502	713	42.0
Therapists	44	87	97.7
Veterinarians	22	47	113.6
Other medical and health			

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	PERCENT CHANGE 1976-1985
Health technol and tech	162	269	66.1
Clinical lab technol, tech	76	115	51.3
Dental hygienists	10	26	160.0
Health record technol, tech			
Radiologic technol, tech	31	46	48.4
Therapy assistants			
Other health technol, tech	45	82	82.2
Technicians, exc health	74	118	59.5
Airplane pilots	16	19	18.8
Air traffic controllers	9	12	33.3
Embalmers			
Flight engineers			
Radio operators	34	58	70.6
Tool programmers, numerical			
Other technicians exc health	15	29	93.3
Computer specialists	50	83	66.0
Computer programmers	36	60	66.7
Computer systems analysis	14	23	64.3
Other computer specialists			
Social scientists	88	148	68.2
Economists	88	148	68.2
Political scientists			
Psychologists			
Sociologists			
Urban and regional planners			
Other social scientists			
Teachers	2,436	2,569	5.5
Adult education teachers	98	137	39.8
College and univ teachers	262	215	-17.9
Elementary school teachers	891	1,005	12.8
Preschool, kindergarten	167	189	13.2
Secondary school teachers	722	662	- 8.3
Teachers nec, exc coll, univer	296	361	22.0
Writers, artists, entertainers	451	674	49.5
Actors			
Athletes and kindred workers	27	37	37.0
Authors			
Dancers			
Designers	29	45	55.2
Editors and reporters	47	61	29.8
Musicians and composers	156	273	75.0
Painters and sculptors	81	107	32.1
Photographers	42	49	16.7
Public relations specialist	50	75	50.0
Radio, TV announcers	13	18	38.5
Writers, artists, entertain nec			
Other professional, technical	1,440	2,033	41.2
Accountants	474	654	38.0
Architects	54	103	90.7
Archivists and curators			
Clergy	19	24	26.3
Religious, exc clergy	11	20	81.8
Farm management advisors			
Judges			
Lawyers	149	212	42.3
Librarians	203	239	17.7
Operations, systems research			
Personnel labor relations	100	144	44.0
Research workers, nec	24	40	66.7
Recreation workers	145	208	43.5
Social workers	116	159	37.1
Vocational, ed counselors	110	184	67.3

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	PERCENT CHANGE 1976-1985
Managers, officials, proprietors	7,075	9,806	38.6
Buyers, sales, loan managers	1,115	1,948	74.7
Bank, financial managers	356	694	94.9
Credit managers	34	59	73.5
Buyers, shippers, farm products	20	40	100.0
Buyers, wholesale, retail	75	132	76.0
Purchasing agents, buyers, nec	81	121	49.4
Sales manager, retail trade	365	638	74.8
Sales manager, exc ret trade	184	264	43.5
Administrators, pub inspectors	543	726	33.7
Assess, control, loc pub admin	63	75	19.1
Construction inspector, pub			
Health administrators	73	104	42.5
Inspectors, exc construct pub	80	114	42.5
Officials, admins, pub	141	178	26.2
Postmasters and mail super			
School admin, college	30	47	56.7
School admin, elem, secondary	149	199	33.7
Other managers, officials, props	5,417	7,132	31.7
Funeral directors	28	26	- 7.1
Mgrs, superintendents, bldg	40	54	35.0
Office managers, nec	239	345	44.4
Officers, pilots, pursers, ship			
Officials of lodges, unions	142	161	13.4
Railroad conductors	15	26	73.3
Restaurant, cafe, bar mgrs	416	510	22.6
Other mgrs, administrators	4,537	6,010	32.5
Sales workers	3,526	5,007	42.0
Advertising agents, sales wrks	82	138	68.3
Auctioneers			
Demonstrators	57	84	47.4
Hucksters and peddlers	141	193	36.7
Insurance agents, brokers, etc	225	284	26.2
Newspaper carrier and vendor	51	40	-21.6
Real estate agents, brokers	248	273	10.1
Stock and bond sales agents	70	116	65.7
Sales workers, nec	2,652	3,879	46.3
Clerical workers	7,539	11,420	51.5
Stenographers, typists, secre	2,204	3,273	48.5
Secretaries, legal	80	128	60.0
Secretaries, medical	55	95	72.7
Secretaries, other	1,568	2,451	56.3
Stenographers	140	87	-37.9
Typists	361	512	41.8
Office machine operators	215	286	33.0
Bookkeeping, billing operators	33	53	60.6
Calculating machine operators			
Computer, peripheral equip	70	119	70.0
Duplicating machine operators	16	23	43.8
Keypunch operators	74	64	-13.6
Tabulating machine operators			
Other office machine operators	19	21	10.5
Other clerical workers	5,120	7,861	53.5
Bank tellers	156	278	78.2
Billing clerks	65	106	63.1

	<u>1976</u> <u>EMPLOYMENT</u>	<u>PROJECTED</u> <u>1985</u> <u>EMPLOYMENT</u>	<u>PERCENT</u> <u>CHANGE</u> <u>1976-1985</u>
Bookkeepers	957	1,227	28.2
Cashiers	580	889	53.3
Clerical assist, soc welfare			
Clerical supervisors, nec	128	196	53.1
Collectors, bill and account	45	68	51.1
Counter clerks, exc food	301	468	55.5
Dispatcher, starter, vehicle	57	87	52.6
Enumerators and interviewers	59	62	5.1
Estimators, investigators, nec	193	305	58.0
Expeditors, prod controllers	35	46	31.4
File clerks	27	35	29.6
Insurance adjust, examiners	40	52	30.0
Library attendants, assistant	115	158	37.4
Mail carriers, post office	86	115	33.7
Mail handler, exc post office	49	69	40.8
Messengers and office helpers	16	19	18.8
Meter readers, utilities	28	28	0.0
Payroll, time keeping clerks	48	70	45.8
Postal clerks	117	155	32.5
Proofreaders	9	11	22.2
Real estate appraisers	61	81	32.8
Receptionists	386	562	45.6
Shipping, receiving clerks	146	220	50.7
Statistical clerks	87	109	25.3
Stock clerks, store keepers	126	207	64.3
Teachers aides, exc monitors	150	286	90.7
Telegraph messengers			
Telegraph operators	45	33	-26.7
Telephone operators	172	213	23.8
Ticket station, express agents	55	59	7.3
Weighers	31	51	64.5
Misc clerical workers, nec	749	1,596	113.1
 Crafts and kindred workers	 5,510	 7,629	 38.5
Construction crafts workers	1,716	2,468	43.8
Carpenters	649	896	38.1
Brickmasons and stonemasons	56	78	39.3
Bulldozer operators	46	82	78.3
Cement and concrete finishers	39	60	53.9
Electricians	234	370	58.1
Excavating, grading, mach opr	163	250	53.4
Floor layers, exc tile setters	18	18	0.0
Painters, construction, maint	134	161	20.2
Paperhangers			
Plasterers	23	26	13.0
Plumbers and pipefitters	223	342	53.4
Roofer and slaters	43	71	65.1
Structural metal craft workers	44	59	34.1
Tilersetters	44	55	25.0
 Blue collar worker supvr, nec	 582	 846	 45.4
Blue collar worker supvr, nec			
 Metalworking craft wrkrs exc mec	 100	 129	 29.0
Blacksmiths			
Boilermakers			
Heat treaters, annealers, etc			
Forge and hammer operators			
Job and die setters, metal			
Machinists	54	64	18.5
Millwrights			
Molders, metal			
Pattern and model makers	*	*	*
Rollers and finishers, metal	*	*	*

*Less than ten.

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	PERCENT CHANGE 1976-1985
Sheet metal workers, tinsmiths	46	65	41.3
Tool, diemakers	*	*	*
Mechanics, repairers, installers	1,699	2,368	39.4
Air cond, heating, refrig mech	96	135	40.6
Aircraft mechanics	11	13	18.2
Auto accessories installers	15	14	- 6.7
Auto body repairers	112	134	19.6
Auto mechanics	540	747	38.3
Data processing mach repairers	8	17	12.5
Farm implement mechanics	65	99	52.3
Heavy equip mech, incl diesel	256	339	32.4
Household appliance mechanics	137	207	51.1
Loom fixers			
Office machine repairers	90	162	80.0
Radio, television repairers	132	231	75.0
Railroad, car shop repairers	147	165	12.2
Other mechanics and apprentice	90	105	16.7
Printing trade crafts workers	179	149	-16.8
Bookbinder	11	10	- 9.1
Compositors and typesetters	116	86	-25.9
Electrotypers, stereotypers			
Engravers exc photoengravers			
Photoengravers, lithographers			
Printing press operators	52	53	1.9
Transportation, pub util craft	252	388	54.0
Elec pwr line installer, reprs	43	65	51.2
Locomotive engineers	55	93	69.1
Locomotive engineer helpers			
Power station operators			
Telephone installers, repairers	121	187	54.5
Telephone line instalr, splicer	33	43	30.3
Other crafts, kindred workers	982	1,281	30.5
Bakers	143	174	21.7
Cabinetmakers	42	51	21.4
Carpet installers	21	33	57.1
Crane, derrick, and hoist opr	83	110	32.5
Decorators, window dressers	72	100	38.9
Dental laboratory tech	23	25	8.7
Furniture and wood finishers	23	35	52.2
Furriers			
Glaziers	68	105	54.4
Inspectors, log and lumber			
Inspectors, other	87	110	26.4
Jewelers and watchmakers	21	23	9.5
Millers, grain, flour, feed			
Motion picture projectionists	15	29	93.3
Opticians, lens grindr, polishr	102	196	92.2
Piano, organ tuners, repairers			
Shipfitters			
Shoe repairers	15	12	-20.0
Sign painters and letterers	24	29	20.8
Stationary engineers	163	143	-12.3
Stone cutters, stone carvers			
Tailors	11	21	90.9
Upholsterers			
Crafts, kindred workers, nec	62	76	22.6

*Less than ten.

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	PERCENT CHANGE 1976-1985
Operatives	4,507	5,820	29.1
Operatives, exc transport	2,554	3,304	29.4
Semiskilled metalworking	312	457	46.5
Drill press operatives			
Furnace tendrs, smeltrs. pourers			
Grinding machine operatives			
Heaters, metal			
Lathe, milling mach operatives			
Metal platers			
Other precision mach operators			
Punch stamping press operative			
Solderers			
Welders and flame cutters	311	456	46.6
Semiskilled textile			
Carding, lapping, combing oprs			
Knitters, loopers, and toppers			
Spinners, twistrs, winders			
Weavers			
Other textile operatives			
Semiskilled packing, inspecting	204	297	45.6
Checkers, examiners, etc, mfg	18	31	72.2
Graders and sorters, mfg	19	25	31.6
Meat wrappers, retail trade	40	68	70.0
Packer, wrapper, ex meat, produce	127	173	36.2
Prod grdr, packer, exc fact, farm			
Other operatives, exc transport	2,038	2,550	25.1
Asbestos, insulation workers	32	47	46.9
Assemblers	9	17	88.9
Blasters			
Bottling, canning operatives	14	22	57.2
Surveyor helpers	26	32	23.1
Clothing ironers and pressers	61	62	1.6
Cutting operatives, nec			
Dressmakers, exc factory	102	134	31.4
Drillers, earth	32	43	34.4
Dry wall installers, lathes	38	51	34.2
Dyers			
Other operatives, exc transport			
Filer, polisher, sander, buffer			
Garage wrkrs, gas station atten	431	474	10.0
Laundry, dry cleaning oprs, nec	97	131	35.1
Meat cutters, butchers, exc mfg	110	147	33.6
Meat cutters, butchers	84	121	44.1
Milleners			
Mine operatives, nec	13	17	30.8
Mixing operatives	17	19	11.8
Oilers, greasers, exc auto	17	16	- 5.9
Painters, mfg articles	43	64	48.8
Photographic process workers	44	64	45.5
Riveters and fasteners			
Sailors and deckhands			
Sawyers			
Sewers and stitchers	36	44	22.2
Shoemaking machine operatives			
Furnace tendr, stokr exc metal	24	26	8.3
Winding operatives, nec			
Misc mach operatives	319	412	29.2
Operatives, nec	461	573	24.3
Transport equipment operatives	1,953	2,516	28.8
Boat operators			
Bus drivers	134	169	26.1

	<u>1976</u> <u>EMPLOYMENT</u>	<u>PROJECTED</u> <u>1985</u> <u>EMPLOYMENT</u>	<u>PERCENT</u> <u>CHANGE</u> <u>1976-1985</u>
Conductors and opr, urban rail			
Delivery and route workers	540	771	42.8
Fork lift, tow motor operatives	49	84	71.4
Rail vehicle operators, nec			
Parking attendant	70	86	22.9
Railroad brake operators	47	69	46.8
Railroad switch operators	110	127	15.5
Taxicab drivers, chauffeurs	73	91	24.7
Truck drivers			
Service workers	7,044	10,072	42.9
Cleaning service workers	1,539	2,397	55.8
Lodging quartrs cleaners exc pr	269	485	80.3
Bldg interior cleaners, nec	469	776	65.5
Janitors and sextons	801	1,136	41.8
Food service workers	2,819	4,076	44.6
Bartenders	242	378	56.2
Waiters assistants	120	159	32.5
Cooks, exc private	647	1,037	60.3
Dishwashers	185	237	28.1
Food counter, fountain workers	349	475	36.1
Waiters	912	1,360	49.1
Food workers, nec, exc private	364	430	18.1
Health service workers	760	1,317	73.3
Dental assistants	72	115	59.7
Health aides, except nursing	56	98	75.0
Health trainees			
Lay midwives			
Nurses aides, orderlies	451	743	64.8
Practical nurses	181	361	99.5
Personal service workers	1,060	1,351	27.5
Flight attendants			
Atten, recreation, amusement	90	105	16.7
Atten, personal service, nec	44	54	22.7
Baggage porters and bellhops	49	52	6.1
Barbers	101	89	-11.9
Boarding, lodging housekeepers	29	29	0.0
Bootblacks			
Child care workers, exc private	389	594	52.7
Elevator operators			
Hairdressers, cosmetologists	272	316	16.2
Housekeepers, exc private	45	55	22.2
School monitors	27	40	48.2
Ushers, recreation, amusement	8	13	62.5
Welfare service aides			
Protective and service workers	598	750	25.4
Crossing guard, bridgetenders			
Firefighters	123	132	7.3
Guards	102	126	23.5
Marshals and constables			
Police and detectives	234	321	37.2
Sheriffs and bailiffs	137	169	23.4
Private household workers	268	181	-32.5
Child care workers	203	133	-34.5
Cooks, private			
Housekeepers, private	16	12	-26.0
Launderers, private household			
Pri household cleaners, servants	47	35	-25.3

	<u>1976</u> <u>EMPLOYMENT</u>	<u>PROJECTED</u> <u>1985</u> <u>EMPLOYMENT</u>	<u>PERCENT</u> <u>CHANGE</u> <u>1976-1985</u>
Laborers, except farm	2,360	3,043	28.9
Animal caretakers, exc farm	58	94	62.1
Carpenters, helpers	81	82	1.2
Constr labr, exc carpenter help	354	430	21.5
Fishers, hunters and trappers			
Freight, material handlers	267	342	28.1
Garbage collectors	94	156	66.0
Gardenrs, groundkeepr, exc farm	268	308	14.9
Longshore workers, stevedores			
Timbercutting, logging workers			
Stock handlers	349	561	60.7
Teamsters			
Vehicle washers, equip cleaners	199	260	30.7
Warehouse laborers, nec	283	323	14.1
Other laborers	403	483	19.9
 Farmers and farm workers	 1,113	 781	 -29.8
Farmers and farm managers	648	472	-27.2
Farmers (owners and tenants)	618	432	-30.1
Farm managers	30	40	33.3
Farm laborers, farm supervisors	465	309	-33.5
Farm labor supervisors	31	31	0.0
Farm laborers, wage wrkrs	417	264	-36.7
Farm laborers, unpaid family	17	14	-17.7
Farm laborers, self-empl			

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